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1. Document ID: US 4418108 A      Relevance Rank: 52

L1: Entry 3 of 5

File: USPT

Nov 29, 1983

US-PAT-NO: 4418108

DOCUMENT-IDENTIFIER: US 4418108 A

TITLE: Composite roofing panel

DATE-ISSUED: November 29, 1983

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lin; David C. K.	Newark	OH	N/A	N/A

US-CL-CURRENT: 428/139; 156/78, 428/304.4, 428/306.6, 428/316.6, 442/370,  
442/394

## ABSTRACT:

A composite panel including a fibrous glass board and foamed-in-place plastic foam has a perforated sheet at the foam-fiberglass interface, there being at least two holes per square inch in the perforated sheet, the diameter of the holes being less than 0.06 of an inch, and the amount of open area represented by the holes being less than 1.5 percent of the total area of the sheet.

6 Claims, 1 Drawing figures Exemplary Claim Number: 1

Number of Drawing Sheets: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw Desc	Image
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2. Document ID: US 4082882 A      Relevance Rank: 50

L1: Entry 5 of 5

File: USPT

Apr 4, 1978

US-PAT-NO: 4082882

DOCUMENT-IDENTIFIER: US 4082882 A

TITLE: Fiberglass reinforced plywood structural sandwich with acrylic facing on one or both sides thereof

DATE-ISSUED: April 4, 1978

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Weinstein; Hyman	Cherry Hill	NJ	N/A	N/A
Adler; Kurt	Erdenheim	PA	N/A	N/A

US-CL-CURRENT: 442/286; 156/285, 264/101, 264/257, 296/901, 428/483, 428/511, 428/537.1

## ABSTRACT:

A structural sandwich for use as a truck, trailer, van or intermodal container wall and method of making the same. The sandwich comprises a fiberglass reinforced plywood plastic unit having one or both facings which are in the form of a sheet or film of a high-impact, weather-resistant, low-haze, non-brittle, substantially non-porous acrylic composition, the unit being made into an integrated sandwich of 20 foot lengths or more by an efficient vacuum molding method.

6 Claims, 10 Drawing figures Exemplary Claim Number: 1

Number of Drawing Sheets: 3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw Desc	Image
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☐ 3. Document ID: US 4088805 A Relevance Rank: 50

L1: Entry 4 of 5

File: USPT

May 9, 1978

US-PAT-NO: 4088805

DOCUMENT-IDENTIFIER: US 4088805 A

TITLE: Reinforced thermoplastic foam sheet

DATE-ISSUED: May 9, 1978

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wiegand; Donald E.	Minneapolis	MN	N/A	N/A

US-CL-CURRENT: 442/370; 156/285, 156/306.6, 156/308.4, 428/139, 428/319.9, 428/76, 428/910, 442/394

## ABSTRACT:

A reinforced low density thermoplastic foam sheet is disclosed. The sheet is a laminate comprising outer laminae of low density thermoplastic foam and a thermoplastic film having about the same tackifying temperature as the foam and a central layer comprising a reinforcing net or net-like structure.

12 Claims, 2 Drawing figures Exemplary Claim Number: 1

Number of Drawing Sheets: 1

☐ 4. Document ID: US 4425396 A      Relevance Rank: 50

Number of Drawing Sheets: 1

☐ 5. Document ID: US 5053265 A      Relevance Rank: 50

[illegible]

US-PAT-NO: 5053265

DOCUMENT-IDENTIFIER: US 5053265 A

TITLE: Moisture-imprevious panel capable of delayed hydration

DATE-ISSUED: October 1, 1991

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Alexander; William	Naperville	IL	N/A	N/A

US-CL-CURRENT: 428/182; 405/38, 405/49, 428/137, 428/4, 428/448, 428/449,  
428/452, 428/454, 428/484, 428/485, 428/486, 428/511, 428/514, 428/913,  
442/255, 442/295, 442/381, 442/412, 52/169.14

## ABSTRACT:

A flexible or rigid panel, and method of making the panel, useful as a water barrier including an intermediate layer of a water-swellaable colloidal clay, such as pentonite, sandwiched between two layers of sheet material, such as woven or non-woven fabric, or paperboard, wherein at least one one of the sheet material layers has a water-soluble coating material covering substantially the entire outer surface of the sheet material layer. The water-soluble coating is a material that dissolves upon a predetermined water contact period, having a controlled, predetermined water-solubility so that the intermediate water-swellaable clay layer is protected against hydration during installation.

10 Claims, 7 Drawing figures Exemplary Claim Number: 1

Number of Drawing Sheets: 3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw Desc	Image
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Terms	Documents
(4082882 or 4418108 or 4425396 or 5053265 or 4088805)[pn]	5

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L5: Entry 6 of 6

File: DWPI

DERWENT-ACC-NO: 1968-47575P

DERWENT-WEEK: 196801

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TITLE: Forming a mouldable rigid felted fibre panel of uniform density, thickness and structure, comprises forming a mat having uniform thickness and a low density in

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
DE 1224919 A		N/A	000	N/A
CA 741725 A		N/A	000	N/A

ABSTRACTED-PUB-NO: DE 1224919A

## BASIC-ABSTRACT:

Forming a mouldable rigid felted fibre panel of uniform density, thickness and structure, comprises forming a mat having uniform thickness and a low density in the range from 1 to 3 pounds per cubic foot from the solid contents of an air-suspension comprising feltable fibres and a resinous binder continuously pneumatically deposited and felted on a moving foraminous conveyor, conditioning said mat by subjecting the mat to a hot gaseous environment for a time sufficient to adjust the moisture content in the range of from 8-15% and the internal temp. 90 deg.F. to 200 deg.F.

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L4: Entry 3 of 3

File: DWPI

Feb 28, 1998

DERWENT-ACC-NO: 1998-363531

DERWENT-WEEK: 199832

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TITLE: Multilayered insulation device, such as acoustical blanket providing acoustical protection from unwanted noise - is made of at least two part strata, with each two-part stratum having a fibrous insulation layer and sound reflecting barrier layer

INVENTOR: BLANQUERA, B R; LAISE, W J ; WEIR, C R

PRIORITY-DATA:

1996US-0706149

August 30, 1996

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
CA 2214302 A	February 28, 1998	N/A	014	G10K011/16

INT-CL (IPC): E04B 1/84; G10K 11/16

ABSTRACTED-PUB-NO: CA 2214302A

BASIC-ABSTRACT:

The insulation device comprises at least two two-part strata, and each two part stratum has a fibrous insulation layer and sound reflecting barrier layer, with fasteners attached to at least one of the two-part strata to enable the insulation device to be fastened together when folded around an article to be insulated, and includes a protective outer covering. The two-part stratum comprises a layer of asphalt and fibre glass insulation layer.

Each fibreglass insulation layer has a density within the range of about 0.5 pounds per cubic foot (8 kg per cubic metre) to about 10 pounds per cubic foot (160 kg per cubic metre), and a layer of asphalt has thickness within the range of about 0.025 mm to about 0.15 mm. The fasteners may be Velcro (RTM) fasteners. The device is diaper-shaped, and each stratum is laminated to another two-part stratum.

USE - As acoustical insulation for office panels, appliances automotive applications, and heating, ventilating and air conditioning equipment.